



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **06113442 A**

(43) Date of publication of application: **22.04.1994**

(51) Int. Cl. **H02H 3/16**

(21) Application number: **04259806**

(22) Date of filing: 29.09.1992

(71) Applicant: **SHIN KOBE ELECTRIC MACH CO LTD**

(72) Inventor: **ISHIKAWA TOSHIAKI**

(54) GROUND-FAULT DETECTION CIRCUIT OF DC CURRENT-FEEDING CIRCUIT

(57) Abstract:

PURPOSE: To provide the ground-fault detection circuit, of a DC current-feeding circuit, wherein it can detect a DC ground-fault part without stopping the feed of an electric current to a DC load and its cost is low.

CONSTITUTION: A DC ground-fault detector 102 which detects the ground fault of the branch circuit of a DC current-feeding circuit which feeds DC electric power to DC loads 106 to 108 from a DC power supply 101 via branch circuits 109 to 111 is installed across outputs of the DC power supply 101. As the DC ground-fault detector 102, a detector whose detection sensitivity is changed by a change in the resistance value of a measuring circuit is used. A parallel circuit wherein a very-small-resistance circuit composed

of diodes D1 to D4 is connected in parallel with switch circuits SW11 to SW23 for short circuit use which short-circuit the very-small-resistance circuit when a short circuit is measured is connected in series in the halfway part of at least positive-pole side lines for the individual branch circuits.

COPYRIGHT: (C)1994,JPO&Japio

